

RICK D. NYDEGGER  
BRENT P. LORIMER  
THOMAS R. VUKSINICK  
LARRY R. LAYCOCK  
JONATHAN W. RICHARDS  
DAVID R. WRIGHT  
JOHN C. STRINGHAM  
JOHN M. GUYNN  
CHARLES L. ROBERTS  
DANA L. TANGREN  
ERIC L. MASCHOFF  
CHARLES J. VEVERKA  
ROBYN L. PHILLIPS  
RICHARD C. GILMORE \*  
STERLING A. BRENNAN  
R. BURNS ISRAELSEN  
DAVID R. TODD  
DAVID B. DELLENBACH  
L. DAVID GRIFFIN  
ADRIAN J. LEE  
FRASER D. ROY  
CARL T. REED

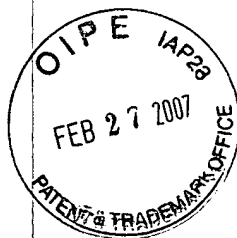


R. PARRISH FREEMAN, JR.  
PETER F. MALEN, JR.  
L. REX SEARS, PH.D.  
WILLIAM R. RICHTER  
ROBERT E. AYCOCK  
JENS C. JENKINS  
MICHAEL B. DODD  
BRETT A. HANSEN  
BRETT I. JOHNSON  
KEVIN W. STINGER  
SARA D. JONES  
TIGE KELLER  
JANNA L. JENSEN  
MATTHEW D. TODD  
J. LAVAR OLDHAM  
MICHAEL J. FRODSHAM  
MATTHEW A. BARLOW  
WESLEY C. ROSANDER  
ANDREW S. HANSEN  
CHAD E. NYDEGGER  
JOSEPH G. PIA  
CLINTON E. DUKE  
RYAN N. FARR  
JAMES B. BELSHE  
KIRK R. HARRIS  
MICHAEL M. BALLARD  
DAVID A. JONES  
SHANE K. JENSEN  
JONATHAN M. BENNS, PH.D.  
SCOTT A. WOODBURY  
JOHN T. GADD  
MARK W. FORD  
COLBY C. NUTTALL  
AARON M. SMITH  
F. CHAD COPIER §  
KULANIAKEA FISHER  
THOMAS M. BONACCI  
PAUL G. JOHNSON  
AMBER B. LEAVITT  
JEFFERY M. LILLYWHITE  
HEATHER MANWELING

VERNON R. RICE  
OF COUNSEL

# WORKMAN | NYDEGGER

INTELLECTUAL PROPERTY ATTORNEYS



1000 EAGLE GATE TOWER  
60 EAST SOUTH TEMPLE  
SALT LAKE CITY, UTAH 84111  
TELEPHONE: (801) 533-9800  
FAX: (801) 328-1707  
WEBSITE: HTTP://WWW.WNLAW.COM

PATENT  
Docket No. 6300.96.1

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Frazier et al.

Serial No.: 09/787,498

Filed: March 16, 2001

For: SURFACE MICROMACHINED  
MICRONEEDLES

Examiner: Camtu Nguyen

Patent No.: 7,048,723

Issue Date: May 23, 2006

Art Unit  
3743

### REQUEST FOR A CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.323

Attn: Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. § 1.323 which implement 35 U.S.C. § 255, the Commissioner is respectfully requested to issue a Certificate of Correction to correct mistakes in the above-identified patent. The enclosed Patent Office Form 1050 reflects the desired corrections. Also enclosed please find a check in the amount of \$100.00 to cover the costs for issuance of this certificate.

Certificate  
MAR 01 2007  
of Correction

01 FC:1811

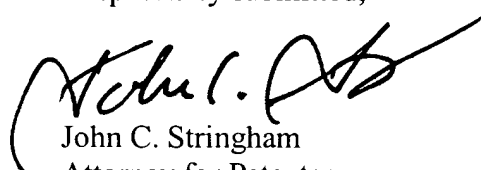
100.00 OP

MAR 15 2007

The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Deposit Account No. 23-3178. Duplicate copies of this letter are enclosed.

Dated this 22 day of February, 2007.

Respectfully submitted,



John C. Stringham  
Attorney for Patentee  
Registration No. 40,831  
Customer No. 022913

JCS:dcm  
Docket No. 6300.96.1  
PR0000001958V001

CERTIFICATE OF DEPOSIT UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 23 day of February, 2007.



Transmitted: REQUEST FOR A CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.323,  
PTO Form 1050 and Check No. 151197 for \$100.00

MAR - 5 2007

RICK D. NYDEGGER  
BRENT P. LORIMER  
THOMAS R. VUKSINICK  
LARRY R. LAYCOCK  
JONATHAN W. RICHARDS  
DAVID R. WRIGHT  
JOHN C. STRINGHAM  
JOHN M. GUYNN  
CHARLES L. ROBERTS  
DANA L. TANGREN  
ERIC L. MASCHOFF  
CHARLES J. VEVERKA  
ROBYN L. PHILLIPS  
RICHARD C. GILMORE \*  
STERLING A. BRENNAN  
R. BURNS ISRAELSEN  
DAVID R. TODD  
DAVID B. DELLENBACH  
L. DAVID GRIFFIN  
ADRIAN J. LEE  
FRASER D. ROY  
CARL T. REED

# WORKMAN | NYDEGGER

INTELLECTUAL PROPERTY ATTORNEYS

1000 EAGLE GATE TOWER  
60 EAST SOUTH TEMPLE  
SALT LAKE CITY, UTAH 84111  
TELEPHONE: (801) 533-9800  
FAX: (801) 328-1707  
WEBSITE: HTTP://WWW.WNLAW.COM



PATENT  
Docket No. 6300.96.1

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Frazier et al.

Serial No.: 09/787,498

Filed: March 16, 2001

For: SURFACE MICROMACHINED  
MICRONEEDLES

Examiner: Camtu Nguyen

Patent No.: 7,048,723

Issue Date: May 23, 2006

Art Unit  
3743

### REQUEST FOR A CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.323

Attn: Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. § 1.323 which implement 35 U.S.C. § 255, the Commissioner is respectfully requested to issue a Certificate of Correction to correct mistakes in the above-identified patent. The enclosed Patent Office Form 1050 reflects the desired corrections. Also enclosed please find a check in the amount of \$100.00 to cover the costs for issuance of this certificate.

R. PARRISH FREEMAN, JR.  
PETER F. MALEN, JR.  
L. REX SEARS, PH.D.  
WILLIAM R. RICHTER  
ROBERT E. AYCOCK  
JENS C. JENKINS  
MICHAEL B. DODD  
BRETT A. HANSEN  
BRETT I. JOHNSON  
KEVIN W. STINGER  
SARA D. JONES  
TIGE KELLER  
JANNA L. JENSEN  
MATTHEW D. TODD  
J. LAVAR OLDHAM  
MICHAEL J. FRODSHAM  
MATTHEW A. BARLOW  
WESLEY C. ROSANDER  
ANDREW S. HANSEN  
CHAD E. NYDEGGER  
JOSEPH G. PIA  
CLINTON E. DUKE  
RYAN N. FARR  
JAMES B. BELSHE  
KIRK R. HARRIS  
MICHAEL M. BALLARD  
DAVID A. JONES  
SHANE K. JENSEN  
JONATHAN M. BENNS, PH.D.  
SCOTT A. WOODBURY  
JOHN T. GADD  
MARK W. FORD  
COLBY C. NUTTALL  
AARON M. SMITH  
F. CHAD COPIER §  
KULANIAKEA FISHER  
THOMAS M. BONACCI  
PAUL G. JOHNSON  
AMBER B. LEAVITT  
JEFFERY M. LILLYWHITE  
HEATHER MANWARING

VERNON R. RICE §  
OF COUNSEL

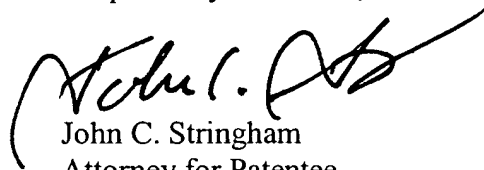
\* Admitted only in California  
§ Admitted only in Virginia

- 5 2007/

The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Deposit Account No. 23-3178. Duplicate copies of this letter are enclosed.

Dated this 22 day of February, 2007.

Respectfully submitted,



John C. Stringham  
Attorney for Patentee  
Registration No. 40,831  
Customer No. 022913

JCS:dcm  
Docket No. 6300.96.1  
PR0000001958V001

CERTIFICATE OF DEPOSIT UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 23 day of February, 2007.



Transmitted: REQUEST FOR A CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.323,  
PTO Form 1050 and Check No. 151197 for \$100.00

MAR - 5 2007

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

PATENT NO. : 7,048,723

Page 1 of 1

APPLICATION NO. : 09/787,498

ISSUE DATE : May 23, 2006

INVENTOR(S) : Frazier et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**Title page**

Abstract clause, line 12, change "on" to --one--

**Column 7**

Line 24, after "The" insert --needle array device 74 can then be disposed in a machined interface structure 76 such as--

**Column 8**

Line 28, before "to have", remove [to have]

Line 36, change "one dimensional" to --one-dimensional--

**Column 9**Equation (2), line 25, change " $\frac{\partial^2 V}{\partial x^2} \cdot \frac{\partial^2 V}{\partial y^2} - \frac{1}{\mu} \nabla p = 0$ " to  $-\frac{\partial^2 V}{\partial x^2} + \frac{\partial^2 V}{\partial y^2} - \frac{1}{\mu} \nabla p = 0$ --**Column 10**

Line 28, change ", while" to --. While--

MAILING ADDRESS OF SENDER (Please do not use customer number)

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

MAR 5 2007

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

PATENT NO. : 7,048,723

Page 1 of 1

APPLICATION NO. : 09/787,498

ISSUE DATE : May 23, 2006

INVENTOR(S) : Frazier et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page

Abstract clause, line 12, change "on" to --one--

Column 7

Line 24, after "The" insert --needle array device 74 can then be disposed in a machined interface structure 76 such as--

Column 8

Line 28, before "to have", remove [to have]

Line 36, change "one dimensional" to --one-dimensional--

Column 9

Equation (2), line 25, change " $\frac{\partial^2 V}{\partial x^2} \cdot \frac{\partial^2 V}{\partial y^2} - \frac{1}{\mu} \nabla p = 0$ " to  $-\frac{\partial^2 V}{\partial x^2} + \frac{\partial^2 V}{\partial y^2} - \frac{1}{\mu} \nabla p = 0$ --

Column 10

Line 28, change ", while" to --. While--

MAILING ADDRESS OF SENDER (Please do not use customer number)

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

MAR 5 2007